

AMENDED CLAIMS

[received by the International Bureau on 28 February 2005 (28.02.2005)]

The original claim 1 was amended, the others remain unchanged.

(total 6 pages)]

1. A method of installing a deheader valve on a coke drum, wherein the coke drum has a body portion and a bottom outlet flange, and wherein the deheader valve has an inlet opening in an inlet opening section that is coupled to the valve by a first and a second valve flange, comprising:
initially positioning the body and valve such that the inlet opening is positioned below the outlet flange at a vertical distance greater than a vertical height of at least one of the first valve flange and second valve flange; and then raising the valve to allow mating of the inlet opening with the flange using a lifting device other than a chain fall.
2. The method of claim 1, further comprising installing both the coke drum and the valve within two month of each other.
3. The method of claim 1, further comprising installing the valve more than one month after installing the coke drum.
4. The method of claim 1, where the lifting device comprises a piston.
5. The system of claim 4, wherein the lifting device apparatus comprises a hydraulic piston.
6. The system of claim 4, wherein the lifting device apparatus comprises a pneumatic piston.
7. The method of claim 1, wherein the lifting device comprises a winch.
8. The method of claim 1, wherein the lifting device comprises a scissors.
9. The method of claim 1, wherein the lifting device comprises a screw jack.
10. The method of claim 1, wherein the lifting device raising the valve at least 2 cm.
11. The method of claim 1, wherein the lifting device raising the valve at least 20 cm.
12. The method of claim 1, wherein the lifting device raising the valve at least 40 cm.

13. The method of claim 1, further comprising lifting the valve using a secondary lifting device comprising spring hanger.
14. The method of claim 1, further comprising providing the valve with an inlet having a size that approximates an outlet of the body.
15. The method of claim 14, wherein the lifting device comprises at least one of a piston, winch, scissors, and screw jack, that lifts the valve at least 20 cm..
16. The method of claim 15, further comprising installing both the coke drum and the valve within two months of each other.
17. The method of claim 1, further comprising installing an oil inlet in a side wall of the drum above the flange.